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ABSTRACT

Enrollment trends as of fall 1980 in graduate degree programs in pharmacy are examined. Information is presented on full- and part-time students, women and minority enrollments, financial support programs provided to graduate students in 1980-81, enrollments by discipline, and enrollments by schools. The trend since 1978 in graduate education in pharmacy has been one of enlarging doctoral programs: doctoral students now comprise 46 percent of the total graduate student population. Most of the growth since 1978 can be accounted for by increases in the number of full-time and part-time Ph.D. students. A large proportion of this increase has been due to the increase in the number of women enrolled in doctoral programs. Enrollments in M.S. programs has been falling off since 1978, and the largest decrease has been in part-time M.S. students. The enrollments for minority students has remained essentially the same, and as a consequence, there has been a slight percentage decrease. It is possible that the increase in doctoral program enrollment may be related to the increase in financial support, since the availability of stipends would seem to make doctoral studies more attractive. The number of students enrolled in full-time graduate study has increased from 1,850 in 1978 to 2,028 in 1980. Women represent 30 percent of the full-time graduate student population, and the percentage of foreign students has remained constant at 29 percent for the last three years. A list of colleges by state is appended that indicates the professional degrees awarded. (SW)

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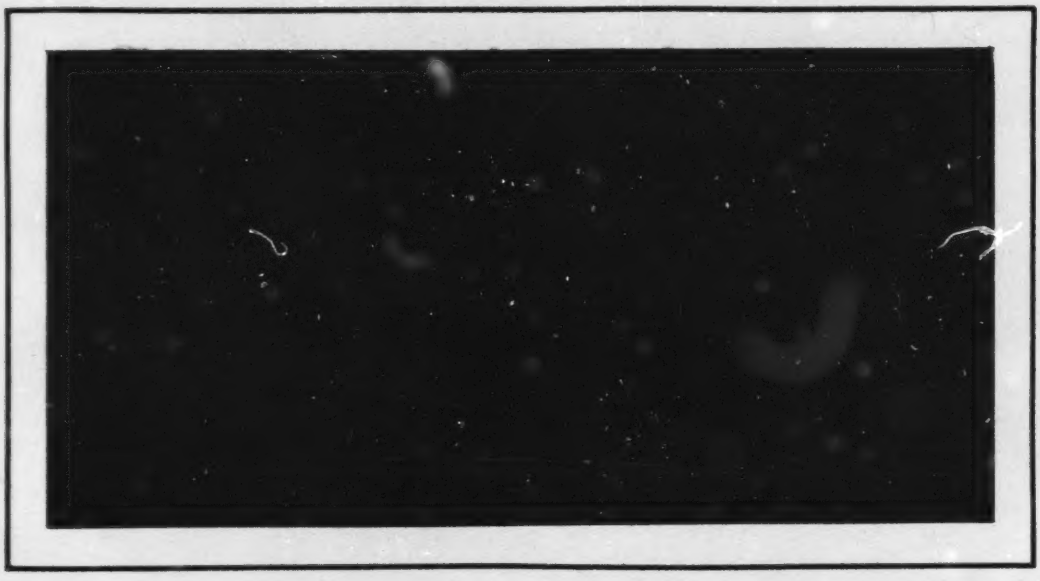

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ENROLLMENT REPORT ON GRADUATE DEGREE PROGRAMS, FALL 1980[1]

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for

American Association of Colleges of Pharmacy

[1] The trends described in this report are based on the last published figures for 1978 (Am. J. Pharm. Educ. 43, 280-294 (1979) and unpublished figures for 1979.

Fifty-four (54) of the 71 accredited pharmacy schools in the continental U.S.A. reported students enrolled in graduate studies at the M.S. (54 schools) or Ph.D. (46 schools) level. This represents an increase of two schools offering Ph.D. programs over the last reported figures in 1978, but is a net decrease of one school offering graduate programs. Full- and part-time enrollments increased for the fourth straight year and the 2,942 students enrolled in graduate programs represent a six percent increase over 1978 and a five percent increase over 1979. Figure 1 pictures these increases as a continuation of the trend in total graduate program enrollment over the last ten years. The largest change continues to be in doctoral program enrollments with a 12 percent increase over 1978 and an 11 percent increase over 1979. Doctoral students now comprise 46 percent of the total graduate student population. The major change evident in the student population mix was a large increase in the proportion of female graduate students. Otherwise, it is quite similar to 1978.

Full-Time Graduate Enrollments

The number of students enrolled in full-time graduate study has increased from 1,850 in 1978 to 2,028 in 1980. However, the percentage of full-time students has remained relatively constant since 1978 at between 67 and 69 percent. The number of female students increased by 25 percent over the 1978 figures and 15 percent over the 1979 figures. Women now represent 30 percent of the full-time graduate student population. The percentage of foreign students has remained constant at 29 percent for the last three years. Substantial percentage gains continue to be recorded for full-time minority students with a 16 percent increase since 1978. However, the percentage of all full-time graduate students represented by minority students has slipped from a high of 6.1 percent in 1979 to 5.8 percent in 1980. The numeric increase in minority students breaks down as follows: six additional Blacks, two additional Hispanics and three additional Asian-Americans since 1978. These figures are detailed in Tables I through IV.

The various academic disciplines are described in Figure 2. Pharmacy and Pharmaceutical Chemistry have the largest full-time student enrollments with 30 percent each of the total. Pharmacology enrolls 21 percent of the total and Hospital Pharmacy, Pharmacy Administration and Pharmacognosy account for eight, six, and five percent of the total respectively. These relative proportions of the total, full-time enrollment accounted for by each discipline have not changed notably since 1978. See Tables I and III for details.

The previous degree characteristics of full-time students are displayed in Table VII. The percentage with previous pharmacy degrees has gradually declined from 58 percent in 1978 to 56 percent in 1980. As one might expect, in 1980 a larger number of M.S. students (64 percent) have a previous pharmacy degree than Ph.D. students (51 percent). These figures for Ph.D. students break down as follows: 14 percent received their degree from the same institution that they are now attending, 19 percent received their degree from another pharmacy school in the U.S.A.; and 18 percent received a pharmacy degree from a foreign institution. For the M.S. students, these

Figure 1: Trend in Total Enrollment

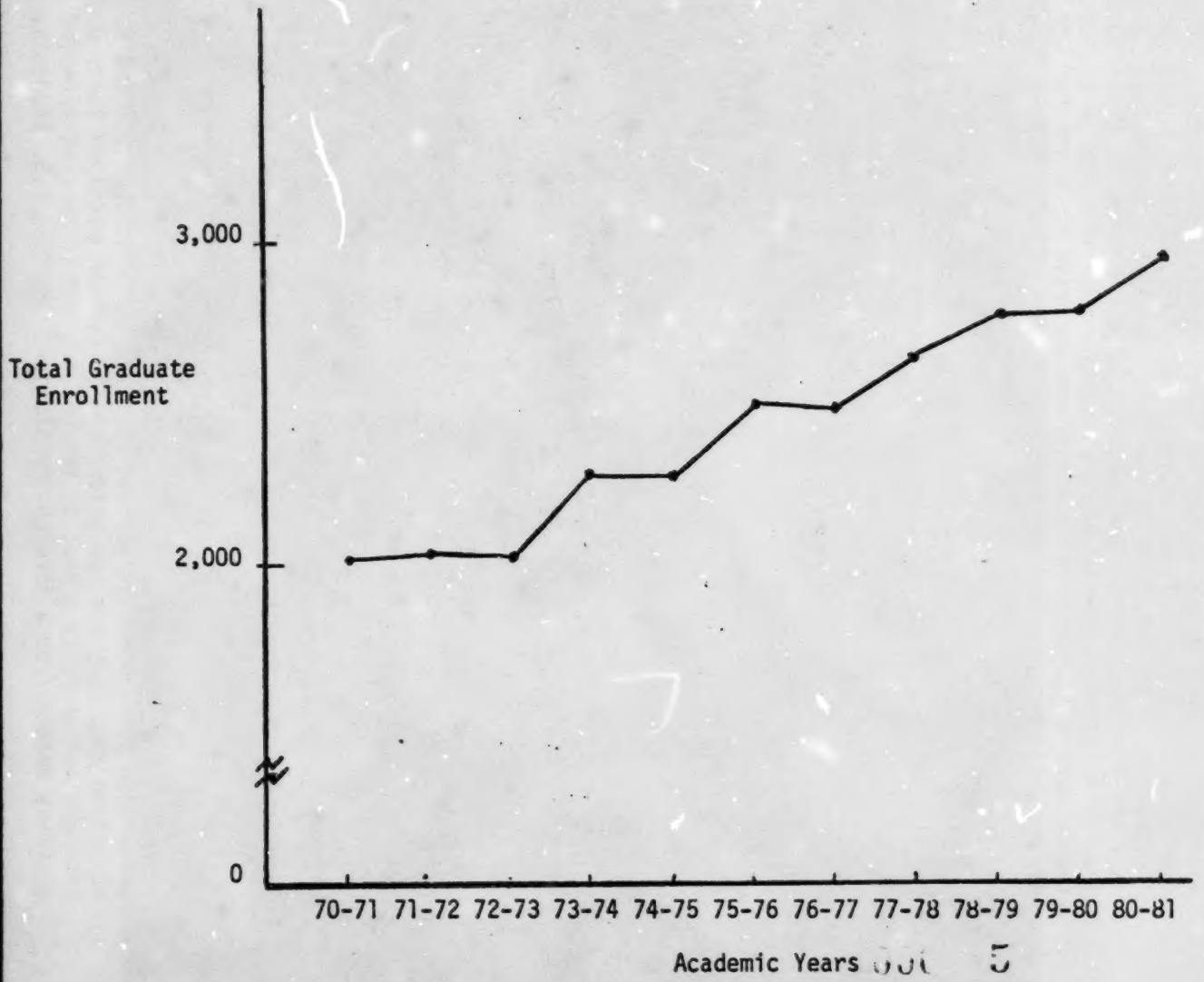

Figure 2: Definitions of Discipline Categories

Pharmacy includes: pharmaceutics, industrial pharmacy, clinical pharmacy, drug information.

Pharmaceutical Chemistry includes: clinical chemistry, radiopharmacy, bionucleonics, medicinal chemistry, radiological health.

Pharmacognosy includes: molecular and quantum biology, microbiology.

Pharmacology includes: biochemical pharmacology, toxicology, neuropharmacology, psychopharmacology, cardiovascular pharmacology, autonomic pharmacology.

Pharmacy Administration includes: hospital pharmacy administration, history of pharmacy, social studies of pharmacy.

Hospital Pharmacy includes: hospital pharmacy only.

figures are 23, 20 and 21 percent respectively. These figures for previous degrees have remained stable since 1978.

M.S. Enrollments

A total of 1,597 students were enrolled on a full- or part-time basis in M.S. programs offered by 54 schools and colleges of pharmacy. This represents a net increase of only 15 students from the 1978 figures. The 835 full-time students reflect a seven percent increase over 1978, but a one percent decrease from 1979. The 762 part-time students are an increase of three percent over 1979 but a five percent decrease since 1978. The net result has been a very small increase of one percent. Within the group of full-time students there have been some interesting changes in the ratio of males to females. Since 1978 there has been a three percent decrease in the number of males and a 27 percent increase in the number of females. This results in the 1980 enrollment being 63 percent male and 37 percent female as opposed to 68 percent and 32 percent respectively in 1978. There has also been a net decrease in the number of minority students enrolled in M.S. programs on a full-time basis. However, this was entirely accounted for by a decrease of five Asian-Americans. The result is that minorities continue to represent a very small percentage of the total full-time M.S. student population (5.7 percent). See Tables I, II, and V for details.

The school with the largest enrollment of full-time M.S. students is Arizona (48) in 1980, in contrast to Houston (42) in 1979 and Purdue (54) in 1978. The schools with the largest enrollment in each discipline are as follows: Pharmacy (16) - Schwartz; Pharmaceutical Chemistry (22) - Purdue and Temple; Pharmacognosy (4) - Illinois; Pharmacology (31) - Arizona; Pharmacy Administration (10) - Mississippi; and Hospital Pharmacy (23) - North Carolina. The disciplines with the largest enrollments are Pharmacy with 212, Pharmacology with 184 and Pharmaceutical Chemistry with 182 M.S. students. This represents a slight increase for Pharmacy and slight decreases for Pharmacology and Pharmaceutical Chemistry. The remaining discipline-oriented information for full-time M.S. students is contained in Tables I and II.

Ph.D. Enrollments

The 46 schools offering doctoral programs enrolled a total of 1,193 students in the Fall of 1980. This is an 11 percent increase over both 1978 and 1979, which reflects both general increases within schools and the addition of two schools offering Ph.D. programs. Women made substantial gains in enrollment with a 23 percent increase over the figures for both 1978 and 1979. This resulted in a net increase of three percent in the number of full-time female Ph.D. students to 26 percent. There was also a net increase in the number of full-time minority students in these programs with five additional Blacks, eight additional Hispanics and seven additional Asian-Americans since 1978. However, due to a sizeable increase in the total enrollment of Ph.D. programs, the percentage of minority students rose only slightly from 4.7 percent in 1978 to 5.9 percent in 1980. The number of foreign students in these programs remains stable at 28 percent since 1978. More specific information on these full-time Ph.D. students is found in Tables III and IV.

Purdue University continues to have the largest enrollment with 111 doctoral students as it had in 1978 and 1979. The schools with the largest enrollments in the disciplines are as follows: Pharmacy (36) - Purdue; Pharmaceutical Chemistry (55) - Purdue; Pharmacognosy (11) - Illinois; Pharmacology (19) - Ohio State; and Pharmacy Administration (16) - Minnesota. The disciplines of Pharmacy and Pharmaceutical Chemistry have the largest number of Ph.D. students while Pharmacy Administration has the smallest enrollment.

Geographic Distribution of Full-Time Students

It is often advantageous for a graduate student to take residency in the state in which he or she is pursuing graduate study; therefore, schools are occasionally unable to provide the true state of origin of these students. The reader is cautioned to consider this fact when studying the tables related to the geographic origin of graduate students. However, some general observations on the mix of students studying in graduate programs can be made. The percentage of full-time students who claim to be attending school in their state of residence is 43 percent in 1980. The percentage of students attending a school out of their state of residence is 28 percent, and there are 29 percent foreign students. All these figures have remained fairly stable over the last several years. The largest number of foreign students continue to come from Taiwan (172), India (87) and Hong Kong (35). These countries have also been the largest sources of foreign graduate students since 1978. Besides these three countries, 56 other countries are represented by full-time students in M.S. and Ph.D. programs; a decrease of two countries from 1978. The details concerning the geographic distribution of all full-time graduate students may be found in Tables VIII, IX, X, and XI.

Part-Time Graduate Enrollments

A total of 914 students were enrolled in part-time graduate study in the Fall of 1980. This represents an increase of four percent from 1979 but a one percent decrease from the 1978 part-time enrollment. However, these figures result from different patterns at the M.S. and Ph.D. levels. Part-time Ph.D. student enrollment increased by by 19 percent over 1978 and 15 percent over 1979. In contrast, part-time M.S. student enrollment decreased by five percent from 1978, though it was up by three percent over the 1979 figures. In interpreting these figures, it is important to remember that part-time students represent 47 percent of the M.S. enrollment and only 11 percent of the Ph.D. enrollment.

The previous degree characteristics of part-time students have changed to a small degree over the last three years. The percentage having a previous pharmacy degree from the same school has remained essentially the same at 32 percent. However the number holding a previous pharmacy degree from either another U.S.A. pharmacy school or a foreign school has decreased by five percent (from 37 percent in 1978 to 32 percent in 1980). At the same time the percentage of part-time students without a previous pharmacy degree has risen from 30 percent in 1978 to 36 percent in 1980. Table VII details these figures.

The schools with the largest part-time enrollments were Northeastern with 213 M.S. students, St. Johns with 150 Ph.D. and 58 M.S. students and Schwartz with 118 M.S. students. Enrollments by discipline also exhibited some slight changes. From 1978 to 1980 Pharmacy decreased by three percent to 28 percent; Pharmaceutical Chemistry decreased by two percent to 14 percent; Pharmacy Administration decreased by seven percent to nine percent; while Pharmacology increased by two percent to 23 percent and Hospital Pharmacy increased by six percent to 22 percent. The details of these distributions by school are given in Tables V and VI.

Financial Support Program

Table XII presents the data on the various service and non-service financial support programs available to graduate students in the Fall of 1980. The total number of awards has increased by 272 since 1978 and the average value of those awards has increased as well. A total of 569 non-service and 1,608 service stipends were awarded.

Comparing the 1978 and 1980 data reveals that there has been a slight increase in the percentage of full-time Ph.D. students awarded stipends from 86 percent in 1978 to 89 percent in 1980. For all other categories of graduates the percentage of students with financial support has decreased. Part-time Ph.D. student support dropped by five percent to 14 percent; full-time M.S. student support dropped by eight percent to 65 percent; and part-time M.S. student support dropped from six to five percent. It should also be noted that ten schools have stipends available for minority students, which reflects a decrease of one school from 1978. The specific information on financial support for graduate students is given in Table XII.

General Remarks

The trend since 1978 in graduate education has been one of enlarging doctoral programs. Most of the growth since 1978 can be accounted for by increases in the number of full- and part-time Ph.D. students. Furthermore a large proportion of this increase has been due to the increase in the number of women enrolled in doctoral programs. Enrollments in M.S. programs have been falling off since 1978, and the largest decrease has been in part-time M.S. students. The enrollments for minority students has remained essentially the same, and as a consequence, there has been a slight percentage decrease. One might speculate that the increase in doctoral program enrollment may be related to the increase in financial support, since the availability of stipends would seem to make doctoral studies more attractive. Regardless of the explanation, these enrollment figures provide evidence of the good health and vitality of graduate education in schools of pharmacy.

Acknowledgment: The author is deeply indebted to the assistance of Mrs. Pat Cillay and the cooperation of all schools in the gathering of data for this report.

INDEX OF TABLES

		Page
I.	Full-Time Graduate Enrollment in Masters Programs	8
II.	Minority Full-Time Graduate Enrollment in Masters Programs	10
III.	Full-Time Graduate Enrollment in Ph.D. Programs	12
IV.	Minority Full-Time Graduate Enrollment in Ph.D. Programs	13
V.	Part-Time Enrollments in Graduate Programs	14
VI.	Graduate Part-Time Enrollments by Discipline	16
VII.	Previous Degrees of Full- and Part-Time Graduate Students	18
VIII.	Geographical Origin of Full-Time Graduate Students	19
IX.	State of Residence of American Graduate Students by Degree	20
X.	Enrollment of American Full-Time Graduate Students by State of Residence	22
XI.	Country of Origin of Foreign Full-Time Graduate Students	26
XII.	Financial Support Programs Provided to Graduate Students in 1980-81	27
XIII.	Graduate Programs, M.S. and Ph.D., offered in 1980-81	28
XIV.	Changes in Pharmacy School Graduate Enrollments (Full- and Part-Time)	30

TABLE 1

Fall 1980 Full-Time Graduate Enrollment in Masters Programs[a,b]

Colleges by State	Pharm.		Ph.Chem.		Phcog.		Phcol.		Ph.Adm.		Hosp.Ph.		Total		TOTAL
	M	F	M	F	M	F	M	F	M	F	M	F	M	F	
Auburn U.	1	4	2	0	0	0	2	0	2	0	1	1	8	5	13
Arizona, U. of	4	0	0	1	0	1	14	17	3	1	5	2	26	22	48
Arkansas Medical Center, U.	0	0	2	1	0	0	1	0	0	0	0	0	3	1	4
California, U. of	0	0	1	0	0	0	0	0	0	0	0	0	1	0	1
Pacific, U. of the	4	1	1	0	0	0	2	2	0	0	1	0	8	3	11
Southern California, U. of	0	2	3(8)	(1)	0	0	0	0	0	0	0	0	11	3	14
Colorado, U. of	2	0	2	0	0	0	1	0		1	1	0	6	1	7
Connecticut, U. of	5	1	2	0	3	0	3	4	1	1	0	0	14	6	20
Florida A&M U.	0	0	2	1	0	0	9	5	0	0	0	0	11	6	17
Florida, U. of	0	0	1	0	0	0	0	0	0	0	2	1	3	1	4
Georgia, U. of	7	1	1	3	0	0	4	5	4	0	1	1	17	10	27
Idaho State U.	0	0	0	0	1	0	1	2	0	0	0	0	2	2	4
Illinois, U. of	3	2	8	7	1	3	0	0	6	2	2	1	20	15	35
Butler U.	0	0	0	0	0	0	1	1	0	0	0	0	1	1	2
Purdue U.	1	4	16	6	0	0	3	1	2	2	0	0	22	13	35
Iowa, U. of	3	4	2	0	0	0	0	0	0	0	6	6	11	10	21
Kansas, U. of	0	1	1	0	0	0	0	0	0	0	6	3	7	4	11
Kentucky, U. of	0	1	0	0	0	0	0	0	0	0	0	0	0	1	1
Northeast Louisiana U.	(1)	0	0	0	0	0	0	0	0	0	(1)	0	2	0	2
Maryland, U. of	5	0	0	1	0	0	0	1	0	0	3	2	8	4	12
Massachusetts Col. of Phar.	3	2	4	2	1	0	2	1	3	2	3	0	16	7	23
Northeastern U.	0	0	0	1	0	0	2	0	0	0	0	0	2	1	3
Michigan, U. of	0	0	3	0	0	0	0	0	0	0	0	0	3	0	3
Wayne State U.	0	0	0	0	1	0	3	1	3	1	0	0	7	2	9
Minnesota, U. of	1	2	0	0	1	2	0	0	2	1	10	3	14	8	22
Mississippi, U. of	5	2	1	1	3	0	2	0	4	6	0	0	15	9	24
Missouri-Kansas City, U. of	3	1	1	1	0	0	2	1	0	0	0	0	6	3	9
Nebraska, U. of	1	4	2	2	0	0	3	2	0	0	0	0	6	8	14
Rutgers U.	2	2	1	2	0	0	4	4	0	0	0	0	7	8	15
Arnold & Marie Schwartz	9	5	0	0	0	0	1	1	5	0	0	0	15	6	21
St. John's U.	9	7	0	0	0	0	6	1	2	3	0	0	17	11	28
State U. of N.Y. at Buffalo	0	0	(1)	(1)	0	0	0	0	0	0	0	0	1	1	2
North Carolina, U. of	4	2	4	1	0	0	0	0	1	0	11	12	20	15	35
North Dakota State U.	0	2	0	2	0	0	4	2	0	0	5	1	9	7	16
Ohio State U.	4	0	1	0	0	0	1	1	3	0	13	7	22	8	30
Cincinnati, U. of	4	1	0	1	0	0	0	1	0	0	0	0	4	3	7
Toledo, U. of	1	1	3	0	1	1	3	1	0	0	5	2	13	5	18
Oklahoma, U. of	1	2	4	0	0	0	0	1	0	0	0	0	5	3	8
Oregon State U.	2	2	0	1	0	0	3	1	0	0	3	1	8	5	13
Duquesne U.	0	1	4	1	0	0	7	5	0	0	0	0	11	7	18

Colleges by State	Pharm.		Ph.Chem.		Phcog.		Phcol.		Ph.Adm.		Hosp.Ph.		Total		
	M	F	M	F	M	F	M	F	M	F	M	F	M	F	TOTAL
Philadelphia Col of Phar.	4	3	6	1	0	0	4	4	0	0	0	0	14	8	22
Temple U.	6	1	12	10	0	0	8	0	0	0	1	1	27	12	39
Pittsburgh, U. of	1	0	1	2	0	1	0	0	0	0	0	0	2	3	5
Rhode Island, U. of	6	3	0	2	1	1	5	0	1	1	0	0	13	7	20
South Carolina, U. of	2	2	2	0	0	0	3	0	3	3	3	1	13	6	19
Tennessee, U. of	(2)	(1)	(1)	(0)	(1)	(1)	0	0	0	0	0	0	(4)	(2)	(6)
Houston, U. of	6	2	8	4	0	0	7	2	1	0	7	4	29	12	41
Texas at Austin, U. of	2	5	0	1	0	0	0	2	0	1	3	0	5	9	14
Utah, U. of	0	1	0	0	0	0	0	0	2	0	3	0	5	1	6
Virginia Commonwealth U.	3	0	2	0	0	0	0	0	0	0	0	0	5	0	5
Washington, U. of	7	8	6	5	1	0	0	0	2	0	0	0	16	13	29
Washington State U.	0	1	0	0	0	0	2	2	0	0	0	0	2	3	5
West Virginia U.	0	4	0	1	0	0	0	0	0	2	0	0	0	7	7
Wisconsin-Madison	0	0	0	0	0	0	0	0	0	0	5	5	5	5	10
Totals	124	88	119	63	15	10	113	71	50	27	101	54	522	313	835

[a] The areas included in each general category are listed in Figure 2.

[b] Figures enclosed in parentheses represent students in a pharmaceutical sciences program offered by a department of the parent university other than its college of pharmacy.

TABLE II

Fall 1980 Minority Full-Time Graduate Enrollment in Masters Programs[a,b]

Colleges by State	Pharm.	Ph.Chem.	Phcog.	Phcol.	Ph.Adm.	Hosp.Ph.	Total M	Total F	TOTAL
Auburn U.	1F, 4F				1F	1B	2	5	7
Arizona, U. of	10			2F, 1A, 1F			3	2	5
Arkansas Medical Center, U. of		1B					0	1	1
California, U. of		1F					1	0	1
Pacific, U. of	2F, 1H			2F, 1F			4	2	6
Southern California, U. of	2F,	1B, 1H, 6F					8	2	10
Colorado, U. of	1A, 1F						2	0	2
Connecticut, U. of	4F, 1F			1F			4	2	6
Florida A&M U.		1B, 1F		6B, 2F, 2B, 1F			10	3	13
Georgia, U. of	4F	1F		1B, 2F			6	2	8
Illinois, U. of	3F, 1F	1F, 1H, 5F	3F				4	10	14
Butler U.				1F			0	1	1
Purdue U.	3F	1A, 1F, 2F		2F	1B		5	5	10
Iowa, U. of	3F, 4F	1F				1F, 1H	5	5	10
Kansas, U. of	1F	1F				1F	2	1	3
Kentucky, U. of	1F						0	1	1
Northeast Louisiana U.	1F						1	0	1
Maryland, U. of	2A, 2F	1F				1A	4	2	6
Massachusetts Coll. of Pharmacy	1F, 1F	1F	1F	1F, 1B	3F, 2F		6	5	11
Northeastern U.[c]		1F		1F			1	1	2
Michigan, U. of		1F					1	0	1
Wayne State U.				1B	1F, 1F		1	2	3
Minnesota, U. of	1F, 2F		1A, 1F		2F	1F	4	4	8
Mississippi, U. of	2F, 1F			1F	1F		4	1	5
Missouri-Kansas City, U. of	3F, 1F	1F					3	2	5
Nebraska, U. of	1F, 2F	1A, 1F		1F, 1F			2	5	7
Rutgers U.	1A, 2F				2F		1	2	3
Arnold & Marie Schwartz	1A, 7F, 2F				1F, 3F		10	2	12
St. John's U.	8F, 1A, 3F			2F, 1F		1F	11	8	19
North Carolina, U. of	1B, 2F	1F					2	3	5
North Dakota State U.		2F		3F, 1F			3	3	6
Ohio State U.	4F	1F		1F		1A, 1H, 1F	5	4	9
Cincinnati, U. of	3F	1A					3	1	4
Toledo, U. of		3F	1F	1F		1F	5	1	6
Oklahoma, U. of	1I, 1F	3F		10			4	2	6

Colleges by State	Pharm.	Ph.Chem.	Phcog.	Phcol.	Ph.Adm.	Hosp.Ph.	Total M	Total F	TOTAL
Oregon State U.	2F, 2F	1F		2F			4	3	7
Duquesne U.	1F	2F					2	1	3
Philadelphia Coll. of Pharmacy	1F	2F, 1F					2	2	4
Temple U.	3F, 1F	1B, 1B				1F	4	3	7
Pittsburgh, U. of			1F				0	1	1
Rhode Island, U. of	3F, 1F	1F			1F		4	2	6
South Carolina, U. of	1F,	2F			1F		2	2	4
Tennessee, U. of		1F					1	0	1
Houston, U. of	5F, 2F	1H, 5F, 1B, 1H, 2F		1A, 1F		1H, 1F, 1B, 1F	13	10	23
Texas at Austin, U. of	2F, 5F	1A		1A, 1F	1F	1F	3	9	12
Virginia Commonwealth U.	1F						1	0	1
Washington, U. of	2A, 2F	1A, 2F					2	5	7
Washington State U.	1F			1F, 2F			1	3	4
West Virginia U.	3F	1F					0	4	4
Totals:									
A = Asian American	7A, 1A	1A, 4A	1A	3A		2A	8A	11A	19A
B = Black American	1B	3B, 3B		7B, 4B	1B	2B	12B	9B	21B
H = Hispanic American	1H	2H, 2H				1H, 2H	3H	5H	8H
I = American Indian	1I						1I	0	1I
O = Other American	1o			1o			1o	1o	2o
F = Foreign	67F, 54F	34F, 22F	2F, 5F	20F, 16F	12F, 8F	6F, 4F	141F	109F	250F
Grand Totals	77 56	40 31	2 6	27 24	13 8	7 10	166	135	301

[a] The areas included in each general category are listed in Figure 2.

[b] Underscored numbers indicate female students

[c] No minority breakdown except "foreign student" given by this school

TABLE III

Fall 1980 Full-Time Graduate Enrollment in Ph.D. Programs[a,b]

Colleges by State	Pharm. M	Pharm. F	Ph.Chem. M	Ph.Chem. F	Phcog. M	Phcog. F	Phcol. M	Phcol. F	Ph.Adm. M	Ph.Adm. F	Hosp.Ph. M	Hosp.Ph. F	Total M	Total F	TOTAL
Auburn U.	(1)	(1)	0	(1)	0	0	(1)	0	0	0	0	0	(2)	(2)	(4)
Arizona, U. of	7	0	5	0	0	0	6	2	0	1	0	0	18	3	21
California, U. of	17	8	29	12	0	0	0	0	0	0	0	0	46	20	66
Pacific, U. of the	1	0	2	2	0	0	1	0	0	0	0	0	4	2	6
Southern California, U. of	8	3	12	3	0	0	3	1	2	0	0	0	25	7	32
Colorado, U. of	0	0	3	0	0	0	5	2	1	0	0	0	9	2	11
Connecticut, U. of	14	8	6	1	8	2	8	3	0	0	0	0	36	14	50
Florida, U. of	12	3	12	4	0	0	0	0	2	1	0	0	26	8	34
Georgia, U. of	1	2	3	0	0	0	3	1	1	0	0	0	8	3	11
Illinois, U. of	14	2	6	5	10	1	0	0	0	0	0	0	30	8	38
Purdue U.	26	10	38	17	0	0	12	4	3	1	0	0	79	32	111
Iowa, U. of	23	1	10	2	4	1	0	0	3	0	0	0	40	4	44
Kansas, U. of	23	7	24	6	0	0	14	3	0	0	0	0	61	16	77
Kentucky, U. of	8	4	6	2	0	0	2	2	0	0	0	1	16	9	25
Northeast Louisiana U.	(1)	0	(3)	0	0	0	(3)	(1)	0	0	0	0	(7)	(1)	(8)
Maryland, U. of	8	0	6	2	0	0	6	6	0	0	0	0	20	8	28
Massachusetts Coll. of Phar.	1	0	2	0	0	0	1	0	0	0	0	0	4	0	4
Northeastern U.	0	0	14	10	0	0	10	2	0	0	0	0	24	12	36
Michigan, U. of	10	5	20	7	1	1	0	0	0	0	0	0	31	13	44
Wayne State U.	5	1	0	0	0	0	4	2	1	0	0	0	10	3	13
Minnesota	11	4	13	7	3	1	0	0	10	6	0	0	37	18	55
Mississippi, U. of	1	0	4	1	2	1	6	2	4	3	0	0	17	7	24
Missouri-Kansas City, U. of	0	0	0	0	0	0	3	1	0	0	0	0	3	1	4
Nebraska, U. of	3	1	5	1	0	0	3	0	0	0	0	0	11	2	13
Rutgers U.	6	0	1	0	7	0	1	1	0	0	0	0	15	1	16
St. John's U.	1	1	0	0	0	0	0	1	0	0	0	0	1	2	3
State U. of N.Y. at Buffalo	(21)	(4)	(19)	(2)	0	0	(14)	(2)	0	0	0	0	(54)	(8)	(62)
North Carolina, U. of	4	0	6	1	0	0	0	0	3	0	0	0	13	1	14
North Dakota State U.	0	0	1	0	0	0	0	0	0	0	0	0	1	0	1
Ohio State U.	9	6	14	7	0	0	14	5	1	0	0	0	38	18	56
Cincinnati, U. of	7	1	0	0	0	0	0	0	0	0	0	0	7	1	8
Oklahoma, U. of	0	0	1	0	0	0	1	0	0	0	0	0	2	0	2
Oregon State U.	2	0	1	1	1	0	4	1	0	0	0	0	8	2	10
Philadelphia Coll. of Pharmacy	2	3	2	1	1	0	3	1	0	0	0	0	8	5	13
Temple U.	2	1	1	0	0	0	5	0	0	0	0	0	8	1	9
Pittsburgh, U. of	1	1	3	1	5	2	6	4	0	0	0	0	15	8	23
Rhode Island, U. of	3	1	3	1	2	0	2	1	0	0	0	0	10	3	13
Tennessee, U. of	(1)	0	(3)	(1)	0	(3)	(7)	(2)	0	0	0	0	(11)	(6)	(17)
Houston, U. of	2	0	0	0	1	0	3	1	0	0	1	0	7	1	8
Texas at Austin, U. of	11	4	6	0	0	0	7	3	0	0	0	0	24	7	31
Utah, U. of	7	5	6	2	0	0	7	4	0	0	0	0	20	11	31
Virginia Commonwealth U.	4	1	5	4	0	0	0	0	0	0	0	0	9	5	14
Washington, U. of	1	1	6	0	0	0	0	0	0	0	0	0	7	1	8
Washington State U.	1	2	1	1	2	1	5	2	0	0	0	0	9	6	15
West Virginia U.	5	0	1	0	0	0	0	0	0	0	0	0	6	0	6
Wisconsin-Madison, U. of	20	14	7	2	7	3	13	2	4	2	0	0	51	23	74
Totals	305	105	310	107	54	16	183	62	35	14	1	1	888	305	1,193

[a] The areas included in each general category are listed in Figure 2

[b] Figures enclosed in parentheses represent students in a pharmaceutical sciences program offered by a department of the parent university other than its college of pharmacy

TABLE IV

Fall 1980 Minority Full-Time Graduate Enrollment in Ph.D. Programs [a, b]

Colleges by State	Pharm.	Ph.Chem.	Phcog.	Phcol.	Ph.Adm.	Hosp.Ph.	Total M	Total F	TOTAL
Auburn U.	1F			1F			1	1	2
Arizona, U. of	1A	1F					2	0	2
California, U. of	1A, 4F, 1A, 2F	5F, 1A, 3F					10	7	17
Pacific, U. of	1F	2F, 1A					3	1	4
Southern California, U. of	3F, 1A, 1F	1A, 1O, 3F, 1A, 1F					8	4	12
Colorado, U. of		1F			1F		2	0	2
Connecticut, U. of	2A, 6F, 3F			1F, 1A			9	4	13
Florida, U. of	1H, 4F, 2F	1H, 2F, 1F					8	3	11
Georgia, U. of	1F, 2F	1F					2	2	4
Illinois, U. of	12F, 2F	1F, 1A, 1F	1H, 5F, 1F				19	5	24
Purdue U.	2A, 2B, 1H, 1A, 2H, 4F	2H, 8F, 1A, 1H, 6F		1H, 3F	1B		19	16	35
Iowa, U. of	13F	3F, 1F					16	1	17
Kansas, U. of	14F, 4F	4F, 3F		1F			19	7	26
Kentucky, U. of	1B, 3F, 1F	1B, 3F					8	1	9
Northeast Louisiana U.	1F	3F					4	0	4
Maryland, U. of	1A, 5F			1F			7	0	7
Massachusetts Coll.of Phar.	1F	1F		1F			3	0	3
Northeastern U.[c]		2F					0	2	2
Michigan, U. of	1A, 1H, 1O, 3F, 5F	2A, 2O, 5F, 1A, 1B, 1F	1H				16	8	24
Wayne State U.	4F, 1F			1F			4	2	6
Minnesota, U. of	7F, 3F	5F, 1F	3F		2F, 2F		17	6	23
Mississippi, U. of			1F, 1F		1B,1B,1F		2	3	5
Nebraska, U. of	1O, 1F	2F		1F			4	1	5
Rutgers U.	5A		1F				6	0	6
St. John's U.	1F, 1F						1	1	2
State. U. of N.Y. at Buffalo	1A, 6F, 2F	6F, 1F		1A,4F,1A			18	4	22
North Carolina, U. of		1F					1	0	1
Ohio State U.	4F, 3F	1A, 6F, 5F		1B, 3F			12	11	23
Cincinnati, U. of	1F						1	0	1
Oregon State U.	1F	1F, 1F					2	1	3
Philadelphia Coll.of Pharm.		1A, 1F, 1A		1F			2	2	4
Temple U.	1F						0	1	1
Pittsburgh, U. of	1F		5F, 2F	1F			6	3	9
Rhode Island, U. of	1F	2F	2F				5	0	5
Tennessee, U. of	1F			2F			3	0	3
Houston, U. of	1F		1A	1A, 1B			3	1	4
Texas at Austin, U. of	1B, 4F	1H, 4F		1H,1F,1O,1F			12	2	14
Utah, U. of	1A, 1O, 1F, 1A, 4F	2F, 2F		1F			5	8	13
Virginia Commonwealth U.	3F, 1F	1F					3	2	5
Washington, U. of	1F						0	1	1
Washington State U.	1F, 2F	1F	1F, 1F	1B			3	4	7
West Virginia U.	2F						2	0	2
Wisconsin-Madison, U. of	3A, 6F, 2H, 7F	2A	1A, 3F. 1F	1F			16	10	26
Totals:									
A = Asian American	18A, 4A	7A, 7A	2A	2A, 2A			29A	13A	42A
B = Black American	4B	1B, 1B		2B, 1B	1B, 2B		8B	4B	12B
H = Hispanic American	3H, 4H	4H, 1H	2H	2H			11H	5H	16H
I = American Indian									0I
O = Other American	3O	3O		1O			6O	1O	7O
F = Foreign	116F, 54F	73F, 31F	21F, 6F	17F, 8F	3F, 3F		230F	102F	332F
Grand Totals	144 62	88 40	25 6	23 12	4 5	0 0	284	125	409

[a] The areas included in each general category are listed in Figure 2

[b] Underscored numbers indicate female students

[c] No minority breakdown except "foreign student" given by this school

TABLE V

Fall 1980 Part-Time Enrollments in Graduate Programs

Colleges by State	M.S.	PH.D.	TOTAL
Auburn U.	1	0	1
Arizona, U. of	12	0	12
Arkansas Medical Center, U. of	12	0	12
California, U. of	0	0	0
Pacific, U. of	5	2	7
Florida, U. of	0	2	2
Georgia, U. of	1	3	4
Idaho State U.	3	0	3
Illinois, U. of	4	2	6
Butler U.	18	0	18
Purdue U.	1	2	3
Iowa, U. of	3	2	5
Kansas, U. of	4	1	5
Kentucky, U. of	0	0	0
Northeast Louisiana U.	3	1	4
Maryland, U. of	5	0	5
Massachusetts College of Pharmacy	31	0	31
Northeastern U.	213	0	213
Wayne State U.	31	1	32
Minnesota, U. of	2	1	3
Mississippi, U. of	3	5	8
Missouri-Kansas City, U. of	11	8	19
Creighton U.	0	0	0
Nebraska, U. of	4	8	12
Rutgers U.	15	22	37
Arnold & Marie Schwartz Coll. of Pharm.	118	0	118
St. John's U.	150	58	208
State U. of New York at Buffalo	1	3	4
North Carolina, U. of	2	0	2
North Dakota State U.	1	1	2
Ohio State U.	1	0	1
Cincinnati, U. of	4	1	5
Toledo, U. of	11	0	11
Oklahoma, U. of	6	1	7
Oregon State U.	11	0	11

Colleges by State	M.S.	PH.D.	TOTAL
Duquesne U.	13	4	17
Philadelphia Coll. of Pharmacy & Science	3	3	6
Temple U.	20	7	27
Pittsburgh, U. of	1	2	3
Rhode Island, U. of	5	4	9
Medical U. of South Carolina	0	0	0
South Carolina, U. of	18	0	18
Tennessee, U. of	3	1	4
Texas at Austin, U. of	3	5	8
Utah, U. of	3	0	3
Virginia Commonwealth U.	4	2	6
Washington, U. of	1	0	1
West Virginia U.	1	0	1
TOTALS	762	152	914

TABLE VI

Fall 1980 Graduate Part-Time Enrollments by Discipline[a]

Colleges by State	Pharm.	Ph.Chem.	Phcog.	Phcol.	Ph.Adm.	Hosp.Ph.	TOTAL
Auburn U.	0	0	0	0	1	0	1
Arizona, U. of	0	2	0	7	2	1	12
Arkansas Medical Center, U. of	0	6	0	0	0	6	12
Pacific, U. of the	1	2	0	4	0	0	7
Florida, U. of	1	0	0	0	0	1	2
Georgia, U. of	3	0	0	0	1	0	4
Idaho State U.	0	2	0	1	0	0	3
Illinois, U. of	5	0	0	0	0	1	6
Butler U.	0	1	0	7	0	10	18
Purdue U.	1	2	0	0	0	0	3
Iowa, U. of	1	0	0	0	0	4	5
Kansas, U. of	0	0	0	1	0	4	5
Northeast Louisiana U.	1	0	0	1	0	2	4
Maryland, U. of	0	0	0	2	0	3	5
Massachusetts Coll. of Pharmacy	7	0	0	6	1	17	31
Northeastern U.	0	81	0	61	0	71	213
Wayne State U.	0	1	2	2	3	24	32
Minnesota, U. of	1	0	0	0	0	2	3
Mississippi, U. of	1	1	0	0	6	0	8
Missouri-Kansas City, U. of	1	7	0	7	4	0	19
Nebraska, U. of	2	8	0	2	0	0	12
Rutgers U.	18	4	5	10	0	0	37
Arnold & Marie Schwartz	68	0	0	8	20	22	118
St. John's U.	100	7	0	70	31	0	208
State U. of N.Y. at Buffalo	0	4	0	0	0	0	4
North Carolina, U. of	0	0	0	0	1	1	2
North Dakota State U.	0	1	0	1	0	0	2
Ohio State U.	0	0	0	0	0	1	1
Cincinnati, U. of	4	1	0	0	0	0	5
Toledo, U. of	0	0	0	0	0	11	11

Colleges by State	Pharm.	Ph.Chem.	Phcog.	Phcol.	Ph.Adm.	Hosp.Ph.	TOTAL
Oklahoma, U. of	4	1	0	2	0	0	7
Oregon State U.	1	0	0	2	0	8	11
Duquesne U.	7	5	0	5	0	0	17
Philadelphia Coll. of Pharmacy	4	0	1	1	0	0	6
Temple U.	9	7	0	4	0	7	27
Pittsburgh, U. of	1	0	0	2	0	0	3
Rhode Island, U. of	4	0	0	4	1	0	9
South Carolina, U. of	6	0	0	0	5	7	18
Tennessee, U. of	1	2	1	0	0	0	4
Texas at Austin, U. of	4	0	1	2	1	0	8
Utah, U. of	0	0	0	0	3	0	3
Virginia Commonwealth U.	3	3	0	0	0	0	6
Washington, U. of	1	0	0	0	0	0	1
West Virginia U.	0	1	0	0	0	0	1
TOTALS	260	149	10	212	80	203	914

[a] The areas included in each general category are listed in Figure 2.

TABLE VII

Previous Degrees of Full- and Part-Time Graduate Students

	Full-Time			Part-Time		
	American	Canadian	Foreign	American	Canadian	Foreign
M.S. STUDENTS						
Pharmacy degree from school now attending	179	0	13	261	0	4
Pharmacy degree from other U.S. school	148	0	16	160	0	7
Pharmacy degree from foreign school	10	3	167	68	1	21
Non-Pharmacy degree from U.S. school	248	0	21	218	0	5
Non-Pharmacy degree from foreign school	0	1	29	14	0	3
Totals	585	4	246	721	1	40
PH.D. STUDENTS						
Pharmacy degree from school now attending	146	0	16	24	0	0
Pharmacy degree from other U.S. school	203	0	29	16	0	2
Pharmacy degree from foreign school	17	4	189	16	0	5
Non-Pharmacy degree from U.S. school	480	0	37	76	0	1
Non-Pharmacy degree from foreign school	15	1	56	5	0	7
Totals	861	5	327	137	0	15

TABLE VIII

Fall 1980 Geographical Origin of Full-Time Graduate Students

Colleges by State	Own State	Other State	Canada	Foreign Country	Total
Auburn U.	7	2	0	8	17
Arizona, U. of	32	33	0	4	69
Arkansas Medical Center, U. of	4	0	0	0	4
California, U. of	49	3	0	15	67
Pacific, U. of the	6	3	0	8	17
Southern California, U. of	23	7	0	16	46
Colorado, U. of	12	3	0	3	18
Connecticut, U. of	30	24	0	16	70
Florida A&M U.	13	0	0	4	17
Florida, U. of	23	6	0	9	38
Georgia, U. of	16	11	1	10	38
Idaho State U.	3	1	0	0	4
Illinois, U. of	31	7	0	35	73
Butler U.	0	1	0	1	2
Purdue U.	46	71	1	28	146
Iowa, U. of	17	22	2	24	65
Kansas, U. of	11	48	0	29	88
Kentucky, U. of	2	16	0	8	26
Northeast Louisiana U.	4	1	0	5	10
Maryland, U. of	25	6	0	9	40
Massachusetts College of Pharmacy	11	3	0	13	27
Northeastern U.	26	9	0	4	39
Michigan, U. of	14	18	0	15	47
Wayne State U.	13	1	0	8	22
Minnesota, U. of	23	24	0	30	77
Mississippi, U. of	13	27	0	8	48
Missouri-Kansas City, U. of	4	4	0	5	13
Nebraska, U. of	11	6	0	10	27
Rutgers U.	26	2	0	3	31
Arnold & Marie Schwartz College of Pharmacy	9	1	0	11	21
St. John's U.	8	3	0	20	31
State U. of New York at Buffalo	33	12	2	17	64
North Carolina, U. of	25	19	0	5	49
North Dakota State U.	7	4	0	6	17
Ohio State U.	25	33	0	28	86
Cincinnati, U. of	8	3	0	4	15
Toledo, U. of	11	1	0	6	18
Oklahoma, U. of	6	0	0	4	10
Oregon State U.	5	8	0	10	23
Duquesne U.	15	0	0	3	18
Philadelphia College of Pharmacy & Science	20	9	0	6	35
Temple U.	33	9	0	6	48
Pittsburgh, U. of	16	2	0	10	28
Rhode Island, U. of	8	14	0	11	33
South Carolina, U. of	8	7	0	4	19
Tennessee, U. of	16	3	0	4	23
Houston, U. of	26	5	0	18	49
Texas at Austin, U. of	17	8	0	20	45
Utah, U. of	15	12	0	10	37
Virginia Commonwealth U.	4	9	0	6	19
Washington, U. of	20	12	2	3	37
Washington State U.	5	5	0	10	20
West Virginia U.	5	2	0	6	13
Wisconsin-Madison, U. of	34	22	1	17	84
Totals	874	572	9	573	2,028

TABLE IX

State of Residence of American Graduate Students by Degree

State	FULL-TIME M.S.	FULL-TIME Ph.D.	FULL-TIME Total	PART-TIME M.S.	PART-TIME Ph.D.	PART-TIME Total	TOTALS M.S.	TOTALS Ph.D.	TOTALS Total
Alabama	7	4	11	1	1	2	8	5	13
Arizona	24	11	35	11	0	11	35	11	46
Arkansas	6	8	14	11	0	11	17	8	25
California	18	96	114	6	1	7	24	97	121
Colorado	11	10	21	1	0	1	12	10	22
Connecticut	15	39	54	8	0	8	23	39	62
Delaware	1	3	4	0	0	0	1	3	4
District of Columbia	0	1	1	0	0	0	0	1	1
Florida	24	30	54	2	2	4	26	32	58
Georgia	17	4	21	1	3	4	18	7	25
Guam	1	0	1	0	0	0	1	0	1
Hawaii	0	0	0	1	0	1	1	0	1
Idaho	3	3	6	0	0	0	3	3	6
Illinois	33	39	72	4	1	5	37	40	77
Indiana	14	47	61	17	2	19	31	49	80
Iowa	11	13	24	2	1	3	13	14	27
Kansas	3	17	20	3	3	6	6	20	26
Kentucky	2	5	7	0	0	0	2	5	7
Louisiana	2	5	7	2	2	4	4	7	11
Maine	2	5	7	17	0	17	19	5	24
Maryland	11	24	35	4	0	4	15	24	39
Massachusetts	17	43	60	193	0	193	210	43	253
Michigan	13	38	51	34	1	35	47	39	86
Minnesota	12	21	33	2	1	3	14	22	36
Mississippi	8	6	14	3	2	5	11	8	19
Missouri	5	13	18	11	4	15	16	17	33
Montana	1	0	1	2	0	2	3	0	3
Nebraska	4	11	15	4	7	11	8	18	26
Nevada	0	1	1	1	0	1	1	1	2
New Hampshire	1	4	5	6	0	6	7	4	11
New Jersey	28	39	67	62	34	96	90	73	163
New Mexico	2	4	6	0	0	0	2	4	6
New York	45	66	111	204	45	249	249	111	360
North Carolina	20	10	30	3	0	3	23	10	33
North Dakota	7	1	8	0	1	1	7	2	9
Ohio	30	45	75	16	2	18	46	47	93
Oklahoma	6	7	13	2	1	3	8	8	16
Oregon	4	6	10	7	0	7	11	6	17
Pennsylvania	73	51	124	32	13	45	105	64	169
Puerto Rico	2	12	14	0	0	0	2	12	14

State	FULL-TIME M.S.	FULL-TIME Ph.D.	FULL-TIME Total	PART-TIME M.S.	PART-TIME Ph.D.	PART-TIME Total	TOTALS M.S.	TOTALS Ph.D.	TOTALS Total
Rhode Island	7	7	14	13	2	15	20	9	29
South Carolina	10	2	12	17	1	18	27	3	30
South Dakota	0	0	0	0	0	0	0	0	0
Tennessee	6	12	18	3	2	5	9	14	23
Texas	27	22	49	5	4	9	32	26	58
Utah	3	15	18	3	0	3	6	15	21
Vermont	0	1	1	0	0	0	0	1	1
Virginia	9	6	15	4	1	5	13	7	20
Virgin Islands (U.S.)	0	1	1	0	0	0	0	1	1
Washington	19	15	34	1	0	1	20	15	35
West Virginia	5	3	8	2	0	2	7	3	10
Wisconsin	15	34	49	0	0	0	15	34	49
Wyoming	1	1	2	0	0	0	1	1	2
Totals	585	861	1,446	721	137	858	1,306	998	2,304

TABLE X

Fall 1980 Enrollment of American Full-Time Graduate Students by State of Residence[a]

ALABAMA (7 + 4 = 11)
Auburn 7, Georgia 1, Mississippi 2, Washington 1

ARIZONA (32 + 3 = 35)
Arizona 32, Purdue 1, Minnesota 1, Washington 1

ARKANSAS (4 + 10 = 14)
Arkansas Medical Center 4, Purdue 2, Mississippi 6, Missouri-Kansas City 1, Ohio State 1

CALIFORNIA (78 + 36 = 114)
California 49, Pacific 6, Southern California 23, Arizona 6, Colorado 1, Georgia 1, Illinois 3, Purdue 4, Kansas 2, Maryland 2, Northeastern 1, Minnesota 2, St. John's 1, Ohio State 1, Oregon State 3, Temple 1, South Carolina 1, Utah 3, Washington 2, Wisconsin-Madison 2

COLORADO (12 + 9 = 21)
Colorado 12, Arizona 1, Kansas 3, Minnesota 2, Mississippi 1, Nebraska 1, Washington 1

CONNECTICUT (30 + 24 = 54)
Connecticut 30, Pacific 1, Georgia 1, Purdue 2, Northeastern 2, Michigan 1, Minnesota 1, Rutgers 1, State U. of N.Y. at Buffalo 2, Ohio State 1, Oregon State 1, Temple 2, Rhode Island 2, South Carolina 1, Texas at Austin 1, West Virginia 1, Wisconsin-Madison 4

DELAWARE (0 + 4 = 4)
Mississippi 1, North Carolina 2, Virginia Commonwealth 1

DISTRICT OF COLUMBIA (0 + 1 = 1)
Connecticut 1

FLORIDA (36 + 18 = 54)
Florida A&M 13, Florida 23, Auburn 2, Connecticut 1, Georgia 2, Purdue 1, Kansas 1, Kentucky 2, Michigan 1, Nebraska 1, North Carolina 1, Ohio State 1, South Carolina 1, Tennessee 1, Houston 1, Texas at Austin 1, Utah 1

GEORGIA (16 + 5 = 21)
Georgia 16, Florida 1, Mississippi 1, North Carolina 1, Ohio State 1, Wisconsin-Madison 1

GUAM (0 + 1 = 1)
Arizona 1

IDAHO (3 + 3 = 6)
Idaho State 3, Ohio State 1, Washington State 2

ILLINOIS (31 + 41 = 72)
Illinois 31, Arizona 1, Colorado 1, Connecticut 1, Purdue 7, Iowa 6, Kansas 3, Kentucky 2, Michigan 2, Mississippi 1, State U. of N.Y. at Buffalo 1, North Carolina 2, Ohio State 3, Oregon State 1, Tennessee 1, Houston 1, Washington 2, Washington State 1, Wisconsin-Madison 5

INDIANA (46 + 15 = 61)
Purdue 46, Florida 2, Illinois 1, Kansas 3, Kentucky 2, Michigan 1, Mississippi 1, Ohio State 3, Pittsburgh 1, Wisconsin-Madison 1

TABLE X (Continued)

IOWA (17 + 7 = 24)
Iowa 17, Arizona 1, Purdue 2, Kansas 1, Minnesota 2, Virginia Commonwealth 1

KANSAS (11 + 9 = 20)
Kansas 11, California 1, Purdue 1, Minnesota 3, Missouri-Kansas City 2, Wisconsin-Madison 2

KENTUCKY (2 + 5 = 7)
Kentucky 2, Florida 1, Purdue 1, Mississippi 1, Ohio State 1, Cincinnati 1

LOUISIANA (4 + 3 = 7)
Northeast Louisiana 4, Purdue 1, Mississippi 2

MAINE (0 + 7 = 7)
Connecticut 1, Purdue 2, Massachusetts College of Pharmacy 1, Northeastern 1, Rhode Island 2

MARYLAND (25 + 10 = 35)
Maryland 25, Connecticut 1, Purdue 1, Massachusetts College of Pharmacy 1, Michigan 1, North Carolina 1, Ohio State 3, Temple 1, Virginia Commonwealth 1

MASSACHUSETTS (37 + 23 = 60)
Massachusetts College of Pharmacy 11, Northeastern 26, Connecticut 4, Purdue 1, Iowa 2, Kansas 1, Kentucky 1, Michigan 2, Minnesota 2, Nebraska 1, State U. of N.Y. at Buffalo 1, Ohio State 3, Oregon State 1, Rhode Island 2, Virginia Commonwealth 1, Washington 1

MICHIGAN (27 = 24 = 51)
Michigan 14; Wayne State 13, Arizona 1, Connecticut 1, Purdue 4, Iowa 2, Kansas 3, Mississippi 1, State U. of N.Y. at Buffalo 1, North Carolina 2, Ohio State 2, Toledo 1, Texas at Austin 1, Utah 1, Virginia Commonwealth 1, Wisconsin-Madison 3

MINNESOTA (23 + 10 = 33)
Minnesota 23, Southern California 1, Connecticut 1, Iowa 2, Kansas 1, Missouri-Kansas City 1, North Dakota State 2, Washington 1, Wisconsin-Madison 1

MISSISSIPPI (13 + 1 = 14)
Mississippi 13, Purdue 1

MISSOURI (4 + 14 = 18)
Missouri-Kansas City 4, Arizona 2, Florida 1, Purdue 1, Iowa 1, Kansas 5, Mississippi 2, Ohio State 2

MONTANA (0 + 1 = 1)
Minnesota 1

NEBRASKA (11 + 4 = 15)
Nebraska 11, Georgia 1, Iowa 1, Kansas 1, Wisconsin-Madison 1

NEVADA (0 + 1 = 1)
Washington State 1

NEW HAMPSHIRE (0 + 5 = 5)
Connecticut 1, Kansas 1, Northeastern 1, State U. of N.Y. at Buffalo 1, Texas at Austin 1

TABLE X (Continued)

NEW JERSEY (26 + 41 = 67)
Rutgers 26, Arizona 1, Connecticut 2, Illinois 1, Purdue 2, Iowa 1, Kansas 1, Northeastern 1, Wayne State 1, Mississippi 1, Nebraska 1, Arnold & Marie Schwartz College of Pharmacy 1, St. John's 1, State U. of N.Y. at Buffalo 2, North Carolina 2, North Dakota State 1, Ohio State 2, Philadelphia College of Pharmacy 9, Temple 3, Pittsburgh 1, Rhode Island 1, Houston 2, Texas at Austin 1, Utah 1, Virginia Commonwealth 2

NEW MEXICO (0 + 6 = 6)
Arizona 2, Connecticut 1, Purdue 1, Mississippi 1, Nebraska 1

NEW YORK (50 + 61 = 111)
Arnold & Marie Schwartz College of Pharmacy 9, St. John's 8, State U. of N.Y. at Buffalo 33, Arizona 4, Southern California 2, Colorado 1, Connecticut 5, Idaho State 1, Illinois 1, Purdue 9, Kansas 4, Kentucky 3, Maryland 1, Michigan 3, Rutgers 1, North Carolina 6, Ohio State 3, Temple 1, Rhode Island 4, South Carolina 2, Houston 1, Utah 3, Virginia Commonwealth 1, Wisconsin-Madison 5

NORTH CAROLINA (25 + 5 = 30)
North Carolina 25, Georgia 1, South Carolina 1, Virginia Commonwealth 1, Washington State 1, Wisconsin-Madison 1

NORTH DAKOTA (7 + 1 = 8)
North Dakota State 7, Iowa 1

OHIO (44 + 31 = 75)
Ohio State 25, Cincinnati 8, Toledo 11, Arizona 2, Illinois 1, Purdue 8, Kansas 5, Kentucky 3, Northeastern 2, Michigan 1, Minnesota 2, Mississippi 2, Nebraska 1, St. John's 1, Utah 1, Wisconsin-Madison 2

OKLAHOMA (6 + 7 = 13)
Oklahoma 6, Arizona 1, California 1, Purdue 1, Iowa 1, Kansas 1, Kentucky 1, State U. of N.Y. at Buffalo 1

OREGON (5 + 5 = 10)
Oregon State 5, Arizona 1, Kansas 1, Kentucky 1, Washington 2

PENNSYLVANIA (84 = 40 = 124)
Duquesne 15, Philadelphia College of Pharmacy 20, Temple 33, Pittsburgh 16, Arizona 4, Pacific 1, Southern California 2, Connecticut 3, Purdue 5, Iowa 1, Kansas 2, Maryland 3, Massachusetts College of Pharmacy 1, Michigan 1, Mississippi 2, State U. of N.Y. at Buffalo 3, North Carolina 1, Ohio State 1, Rhode Island 3, South Carolina 1, Tennessee 1, Texas at Austin 1, Utah 1, West Virginia 1, Wisconsin-Madison 2

PUERTO RICO (0 + 14 = 14)
Pacific 1, Florida 1, Purdue 7, Iowa 1, Michigan 1, Texas at Austin 1, Wisconsin-Madison 2

RHODE ISLAND (8 + 6 = 14)
Rhode Island 8, Connecticut 1, Butler 1, Iowa 1, Kansas 1, Michigan 1, Utah 1

SOUTH CAROLINA (8 + 4 = 12)
South Carolina 8, California 1, Southern California 1, Georgia 1, Northeastern 1

TENNESSEE (16 + 2 = 18)
Tennessee 16, Northeast Louisiana 1, Mississippi 1

TABLE X (Continued)

TEXAS (43 + 6 = 49)
Houston 26, Texas at Austin 17, Arizona 2, Purdue 2, Kansas 1, Kentucky 1

UTAH (15 + 3 = 18)
Utah 15, Michigan 1, Oregon State 1, Washington 1

VERMONT (0 + 1 = 1)
Mississippi 1

VIRGINIA (4 + 11 = 15)
Virginia Commonwealth 4, Georgia 2, Purdue 1, Iowa 1, Kansas 1 Minnesota 1, North Carolina 1, Ohio State 1, Cincinnati 2, Temple 1

VIRGIN ISLANDS (0 + 1 = 1)
Purdue 1

WASHINGTON (25 + 9 = 34)
Washington 20, Washington State 5, Arizona 1, Purdue 2, Iowa 1, Kansas 1, Michigan 1, Minnesota 1, Ohio State 1, Oregon State 1

WEST VIRGINIA (5 + 3 = 8)
West Virginia 5, Georgia 1, Kansas 1, Ohio State 1

WISCONSIN (34 + 15 = 49)
Wisconsin-Madison 34, Arizona 1, Southern California 1, Kansas 3, Michigan 1, Minnesota 6, North Dakota State 1, Ohio State 1, Texas at Austin 1

WYOMING (0 + 2 = 2)
Arizona 1, Kansas 1

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[a] First number within parenthesis indicates the number of resident students attending colleges in-state; the second number represents the number of resident students attending colleges in other states. Under each state are listed the colleges enrolling students from that state, with schools within that state underlined.

TABLE XI

Country of Origin of Foreign Full-Time Graduate Students

Country	Male	Female	Total
Africa[a]	1	0	1
Australia	1	2	3
Bahrain	1	0	1
Bangladesh	6	1	7
Barbados	1	0	1
Brazil	0	1	1
Camaroon	3	0	3
Canada			
British Columbia	0	1	1
Manitoba	0	1	1
New Brusnwick	1	0	1
Nova Scotia	0	1	1
Quebec	1	2	3
Saskatchewan	2	0	2
Columbia	1	1	2
Costa Rica	1	0	1
Cyprus	1	1	2
Egypt	17	10	27
Ethiopia	1	0	1
Fiji	1	0	1
France	0	1	1
Ghana	5	0	5
Greece	3	0	3
Grenada	1	0	1
Guam	0	1	1
Honduras	0	2	2
Hong Kong	26	9	35
India	75	12	87
Indonesia	2	0	2
Iran	7	6	13
Iraq	6	2	8
Israel	1	0	1
Jamaica	0	1	1
Japan	5	3	8
Jordan	5	2	7
Kenya	3	0	3
Korea	14	8	22
Kuwait	0	2	2
Lebanon	2	1	3
Libya	0	1	1
Malaysia	3	2	5
Mexico	1	0	1
Netherlands	2	0	2
Nigeria	27	9	36
Pakistan	4	0	4
Panama	2	2	4
Phillipines	0	2	2
Poland	0	1	1
Portugal	1	0	1
Saudi Arabia	14	0	14
South Africa	2	0	2
Spain	1	0	1
Sri Lanka	2	0	2
Sudan	1	0	1
Sweden	1	0	1
Syria	2	2	4
Taiwan	85	87	172
Tanzania	1	1	2
Thailand	11	17	28
Turkey	4	2	6
United Arab Republic	1	0	1
United Kingdom	2	1	3
Venezuela	4	10	14
Vietnam	4	3	7
Zaire	2	0	2
Totals	371	211	582

[a] Individual countries not specified

TABLE XII

Financial Support Programs Provided to Graduate Students in 1980-81[a]

No. of Schools	Type of Support Program	No. Months Duration Range	≤9	10-12	Stipends[b] Available	Dollar Value Low	High	Mean	Hours Worked Weekly Low	High	Mean
13	Non-Service Stipend	2-12 (9)	34	148	191	300	10,615	4,023	-	-	-
27	External Sources	2-12 (1)	43	334	378	625	22,500	5,002 (14)	-	-	-
53	Teaching Assistants	2-12	465	333	798	600 (7)	9,738	4,398	6	20	15.4
35	Research Assistants	3-12 (3)	69	308	377	600	10,000	5,496 (12)	4	30	17.9 (20)
9	Instructorships	3-12	13	15	28	2,307 (2)	12,500	5,036	3	40	24.2 (1)
20	Hospital Interns	9-12 (6)	11	90	107	3,250 (7)	12,000	9,082	15	40	27.6 (19)
14	Other Predoctoral	6-12	29	21	50	500	15,600	5,904	6	40	21.0
27	Postdoctoral	4-12	4	212	216	7,000	23,333	14,026	20	40	39.7 (1)
9	General University[c]	9-12	6	26	32	2,350	23,000	-	-	-	-

[a] The number in ( ) indicates the number of stipends for which the data were unspecified.

[b] The number of stipends available will not always agree with the sum of the categories of Months Duration due to some stipends with unspecified durations.

[c] Since the general university category is a mixture of all types of support, means and hours worked weekly were not calculated.

TABLE XIII

Graduate Programs, M.S.(M) and Ph.D.(D) Offered in 1980-81[a,b,c]

Colleges by State	Pharm.		Ph.Chem.		Phcog.		Phcol.		Ph.Adm.		Hosp.Ph.	Other
Auburn U.	M		M				M		M		M	
Arizona, University of	M	D	M	D			M	D	M	D	M	
Arkansas Medical Center, U.	M		M		M		M	D[d]	M		M	M Nuclear Phar.
California, U. of			M	D			M*	D*				
Pacific, U. of	M	D	M	D			M	D				M D - Clinical
Southern California, U. of	M	D	M	D			M	D	M	D		M - Radiopharmacy
Colorado, U. of	M	D	M	D			M	D	M		M	
Connecticut, U. of	M	D	M	D	M	D	M	D	M	M*	M	Pharm.D
Florida A&M U.			M				M					
Florida, U. of	M	D	M	D	M*	D*	M*	D*	M	D	M	
Georgia, U. of	M	D	M	D	M	D	M	D	M	D	M	
Idaho State U.	M		M		M		M					
Illinois, U. of	M	D	M	D	M	D					M	
Butler U.	M		M				M				M	
Purdue U.	M	D	M	D	M	D	M	D	M	D		
Iowa, U. of	M	D	M	D	M	D	M*	D*	M	D	M	
Kansas, U. of	M	D	M	D	M	D					M	
Kentucky, U. of	M	D	M	D	M	D	M	D				M D - Toxicology
Northeast Louisiana U.	M	D	M	D	M	D	M	D	M	D	M	
Maryland, U. of	M	D	M	D	M	D	M	D			M	
Massachusetts Col. of Phar.	M	D	M	D			M	D	M	D	M	M - Therapeutics D - Radiopharmacy
Northeastern U.			M	D			M	D			M	M D - Clinical Chemistry M D - Radiopharmaceutical Science Pharm.D (in pharmacy)
Michigan, U. of	M	D	M	D	M	D						
Wayne State U.	M	D	M	D	M	D	M	D	M	D	M	
Minnesota, U. of	M	D	M	D	M	D	M*	D*	M	D	M	
Mississippi, U. of	M	D	M	D	M	D	M	D	M	D	M	
Missouri-Kansas City, U. of	M	D	M	D			M	D	M	D		
Nebraska, U. of	M	D	M	D	M	D	M	D				
Rutgers U.	M	D	M	D	M	D	M	D				M D - Toxicology
Arnold & Marie Schwartz	M						M(*)					
St. John's U.	M	D	M				M	D	M		M	
State U. of N.Y. at Buffalo	M	D	M	D			M	D				

Colleges by State	Pharm.		Ph.Chem.		Phcog.		Phcol.		Ph.Adm.		Hosp.Ph.		Other	
North Carolina, U. of	M	D	M	D			M*	D*	M	D[e]	M			
North Dakota State U.	M		M	D	M	D	M	D	M		M			
Ohio State U.	M	D	M	D	M	D	M	D	M	D	M			
Cincinnati, U. of	M	D[f]	M		M		M		M				M	- Cosmetic Science
Toledo, U. of	M		M		M		M				M			
Oklahoma, U. of	M		M		M		M				M		M	BA/Pharm.[g]
Oregon State U.	M	D	M	D	M	D	M	D	M	D	M			
Duquesne U.	M		M	D			M						M	- Toxicology
Philadelphia Col. of Pharmacy	M	D	M	D	M	D	M	D						
Temple U.	M	D	M	D			M	D			M		M	- Environmental Health
Pittsburgh, U. of	M	D	M	D	M	D		D						
Rhode Island, U. of	M	D	M	D	M	D	M	D	M					
South Carolina, U. of	M		M				M		M		M			
Tennessee, U. of	M	D	M	D			M*	D*	M		M		M	D - Toxicology
Houston, U. of	M	D*	M	D*			M*	D*	M		M			
Texas at Austin, U. of	M	D	M	D	M	D	M	D	M		M			
Utah, U. of	M	D	M	D			M	D	M		M	M*		
Virginia Commonwealth U.	M	D	M	D			M*	D*	M	D				
Washington, U. of	M	D	M	D			M*	D*						
Washington State U.	M	D	M	D	M	D	M	D						
West Virginia U.	M	D	M	D	M		M(*)	D*	M	D				
Wisconsin, U. of	M	D	M	D	M	D	M	D	M	D	M		M	D - Continuing Education

[a] The areas included in each general category are listed in Figure 2.

[b] An asterisk * indicates a program available in pharmaceutical sciences offered by departments of the parent university other than its college of pharmacy.

[c] An asterisk in parentheses (*) indicates that degree programs in an area are offered both according to footnote b and also by the college of pharmacy.

[d] Program is offered jointly with the Pharmacology Department in the College of Medicine.

[e] Program approval is pending.

[f] Joint program with the College of Medicine.

[g] Offered in conjunction with the College of Business Administration.

TABLE XIV

Change in Pharmacy School Graduate Enrollments (Full- and Part-Time)

Academic Year	Schools Reporting Graduate Programs	Enrollment	From Preceding Academic Year	From 1970-71 Academic Year
1970-71	58	2,029	+ 2.01	—
1971-72	57	2,040	.54	+ .54
1972-73	56	2,030	- .49	+ .05
1973-74	55	2,287	+12.66	+12.72
1974-75	50	2,273	- .61	+12.02
1975-76	54	2,499	+ 9.94	+23.16
1976-77	55	2,482	- .68	+22.33
1977-78	55	2,651	+ 6.81	+30.66
1978-79	55	2,776	+ 4.72	+36.82
1979-80	54	2,791	+ .54	+37.55
1980-81	54	2,942	+ 5.13	+45.09

U. S. COLLEGES OF PHARMACY

Professional degrees awarded: The Bachelor of Science in Pharmacy is awarded by all schools unless otherwise indicated by a single asterisk (*), which notes that the school awards only the PharmD (Doctor of Pharmacy) as the first professional degree. A double asterisk (**) indicates the school offers both the B.S. Pharmacy and PharmD degrees. Although all schools listed have accredited first professional degree programs, not all PharmD programs have been accredited by the American Council on Pharmaceutical Education. The accreditation status of programs can be obtained by contacting the ACPE, One East Wacker Drive, Chicago, Illinois 60601, (312) 467-6222.

( ) The number in parenthesis after the school name indicates the number of years of college study generally required prior to enrolling in the school of pharmacy.

Information regarding graduate programs available in schools of pharmacy is available from the American Association of Colleges of Pharmacy (address on reverse side).

ALABAMA

Auburn University (2)
School of Pharmacy
Auburn, AL 36849

Samford University (2)
School of Pharmacy
800 Lakeshore Drive
Birmingham, AL 35209

ARIZONA

University of Arizona (2)
College of Pharmacy
Park Ave. and University Blvd.
Tucson, AZ 85721

ARKANSAS

**University of Arkansas for Medical Sciences (2)
College of Pharmacy
4301 West Markham
Little Rock, AR 72205

CALIFORNIA

*University of California (2)
School of Pharmacy
San Francisco, CA 94143

**University of the Pacific (1)
School of Pharmacy
751 Brookside Road
Stockton, CA 95211

*University of Southern California (2)
School of Pharmacy
1985 Zonal Avenue
Los Angeles, CA 90033

COLORADO

University of Colorado (2)
School of Pharmacy
Box 297
Boulder, CO 80309

CONNECTICUT

University of Connecticut (0)
School of Pharmacy
Box U-92
Storrs, CT 06268

DISTRICT OF COLUMBIA

Howard University (2)
College of Pharmacy and Pharmacal Sciences
2300 Fourth Street, N.W.
Washington, DC 20059

FLORIDA

**Florida Agricultural and Mechanical University (0)
School of Pharmacy
P.O. Box 367
Tallahassee, FL 32307

**University of Florida (2)
College of Pharmacy Box J-4
J. Hillis Miller Health Center
Gainesville, FL 32610

GEORGIA

*Mercer University (2)
Southern School of Pharmacy
345 Boulevard, N.E.
Atlanta, GA 30312

**University of Georgia (2)
School of Pharmacy
Athens, GA 30602

IDAHO

Idaho State University (2)
College of Pharmacy
Pocatello, ID 83201

ILLINOIS

**University of Illinois (1)
College of Pharmacy
833 South Wood Street
P.O. Box 6998
Chicago, IL 60632

INDIANA

Butler University (2)
College of Pharmacy
46th and Sunset Avenue
Indianapolis, IN 46208

**Purdue University (1)
School of Pharmacy and Pharmacal Sciences
W. Lafayette, IN 47907

IOWA

Drake University (0)
College of Pharmacy
28th and Forest
Des Moines, IA 50311

University of Iowa (1)
College of Pharmacy
Iowa City, IA 52242

KANSAS

University of Kansas (2)
School of Pharmacy
Lawrence, KS 66044

KENTUCKY

**University of Kentucky (2)
College of Pharmacy
Washington & Gladstone Streets
Lexington, KY 40506

LOUISIANA

Northeast Louisiana University (2)
School of Pharmacy
700 University Avenue
Monroe, LA 71209

Xavier University of Louisiana (2)
College of Pharmacy
7325 Palmetto Street
New Orleans, LA 70125

MARYLAND

**University of Maryland (2)
School of Pharmacy
636 West Lombard Street
Baltimore, MD 21201

MASSACHUSETTS

**Massachusetts College of Pharmacy and Allied Health Sciences
179 Longwood Avenue
Boston, MA 02115

**Northeastern University (0)
College of Pharmacy and Allied Health Professions
360 Huntington Avenue
Boston, MA 02115

MICHIGAN

Ferris State College (2)
School of Pharmacy
901 South State Street
Big Rapids, MI 49307

**University of Michigan (2)
College of Pharmacy
Ann Arbor, MI 48109

**Wayne State University (2)
College of Pharmacy and Allied Health Professions
Health Sciences Building
Detroit, MI 48202

MINNESOTA

**University of Minnesota (2)
College of Pharmacy
308 Harvard Street, S.E.
Minneapolis, MN 55455

MISSISSIPPI

University of Mississippi (2)
School of Pharmacy
University, MS 38677

MISSOURI

St. Louis College of Pharmacy (0)
4588 Parkview Place
St. Louis, MO 63110

** University of Missouri-Kansas City (1)
School of Pharmacy
5005 Rockhill Road
Kansas City, MO 64110

MONTANA

University of Montana (2)
School of Pharmacy and Allied Health Sciences
Missoula, MT 59812

NEBRASKA

**Creighton University (2)
School of Pharmacy
2542 California Street
Omaha, NE 68178

*University of Nebraska (2)
College of Pharmacy
42nd & Dewey Avenue
Omaha, NE 68105

NEW JERSEY
Rutgers University (0)
The State University of New Jersey
College of Pharmacy
P.O. Box 789
Piscataway, NJ 08854

NEW MEXICO
University of New Mexico (1)
College of Pharmacy
Albuquerque, NM 87131

NEW YORK
Long Island University (0)
Arnold & Marie Schwartz College
of Pharmacy & Health Sciences
75 DeKalb Avenue @ University Plaza
Brooklyn, NY 11201

**St. John's University (0)
College of Pharmacy and
Allied Health Professions
Grand Central & Utopia Pkwys.
Jamaica, NY 11439

**State University of New York
at Buffalo (2)
School of Pharmacy
C126 Cooke-Hochstetter Complex
Amherst, NY 14260

Union University (0)
Albany College of Pharmacy
106 New Scotland Avenue
Albany, NY 12208

NORTH CAROLINA
**The University of North Carolina
at Chapel Hill (2)
School of Pharmacy
Beard Hall 200H
Chapel Hill, NC 27514

NORTH DAKOTA
North Dakota State University (0)
College of Pharmacy
Fargo, ND 58105

OHIO
Ohio Northern University (0)
College of Pharmacy & Allied
Health Sciences
Ada, OH 45810

**Ohio State University (1)
College of Pharmacy
500 West 12th Avenue
Columbus, OH 43210

**University of Cincinnati (2)
College of Pharmacy
Medical Center
Health Professions Bldg.
Mail Location #4
Cincinnati, OH 45267

University of Toledo (1)
College of Pharmacy
2801 West Bancroft Street
Toledo, OH 43606

OKLAHOMA
Southwestern Oklahoma State
Unviersity (2)
School of Pharmacy
Weatherford, OK 73096

University of Oklahoma (2)
College of Pharmacy
644 Northeast 14th
Oklahoma City, OK 73190

OREGON
Oregon State University (2)
School of Pharmacy
Corvallis, OR 97331

PENNSYLVANIA
**Duquesne University (0)
School of Pharmacy
Pittsburgh, PA 15282

**Philadelphia College of Pharmacy
and Science (0)
43rd Street & Kingsessing Mall
Philadelphia, PA 19104

Temple University (2)
School of Pharmacy
3307 North Broad Street
Philadelphia, PA 19140

University of Pittsburgh (1)
School of Pharmacy
3501 Terrace Street
Pittsburgh, PA 15261

PUERTO RICO
University of Puerto Rico (1)
College of Pharmacy
Medical Sciences Campus
GPO Box 5067
San Juan, Puerto Rico 00936

RHODE ISLAND
University of Rhode Island (0)
College of Pharmacy
Kingston, RI 02881

SOUTH CAROLINA
**Medical University of South
Carolina (2)
School of Pharmacy
171 Ashley Avenue
Charleston, SC 29403

University of South Carolina (1)
College of Pharmacy
Columbia, SC 29208

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**University of Utah (0)
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**Virginia Commonwealth University (2)
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University of Washington (2)
School of Pharmacy
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Washington State University (1)
College of Pharmacy
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WEST VIRGINIA
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School of Pharmacy
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5/81

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